

Flood Control Project Maintenance
2011 Structure Summary Report
Overall Unit and Item Ratings

Sacramento County

American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05

Overall Unit Rating	Rated Item	Item Rating
A	Operating Log	A
	Operation & Maintenance Manual	A
	Plant Building	A
	Communications	A
	Safety	A
	Cranes	A
	Pumps	A
	Power	A
	Motors, Engines, Fans & Gear Reducers	A
	Pump Control Systems	A
	Sumps/Wet Well	A
	Trash Racks	A
	Trash Rakes	A
	Sluice / Slide Gates	N
	Electric Gate Operators	A
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	A
	Closure Structures	N
	Security Fencing	A
	Intake and Discharge Pipes	A
	Pressurized Pipe	A

American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43

Overall Unit Rating	Rated Item	Item Rating
A	Operating Log	A
	Operation & Maintenance Manual	A
	Plant Building	A
	Communications	A
	Safety	A
	Cranes	A
	Pumps	A
	Power	A
	Motors, Engines, Fans & Gear Reducers	A
	Pump Control Systems	A
	Sumps/Wet Well	A
	Trash Racks	A
	Trash Rakes	N
	Sluice / Slide Gates	N
	Electric Gate Operators	A
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	A
	Closure Structures	N
	Security Fencing	A
	Intake and Discharge Pipes	A
	Pressurized Pipe	A

Flood Control Project Maintenance**Unit Cover Sheet****2011 Pumping Plant Inspection Results****Sacramento County**

Pumping Plant
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05

Pumping Plant Rating	A
Date of Inspection	8/5/2011
DWR Inspector	Jim Eto
Accompanied By	Jay Pettigrew Plumas Co.
	Jon Money County of Sacramento

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2011

Sacramento County

Structure						Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05							08/05/2011 08/05/2011	Jim Eto

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00	Pump Stations	Operating Log		A	Inspector Comments: Maintenance log is present on site at the pump station and is being used and updated.	°	°	1
								°	°	Y
2	0.00	0.00	Pump Stations	Operation & Maintenance Manual		A	Inspector Comments: O & M manuals are located on site. Stored in same location as Operating Log.	°	°	2
								°	°	
3	0.00	0.00	Pump Stations	Plant Building		A	Inspector Comments: Plant building is in appears to be in sound structural condition.	°	°	3
								°	°	Y
4	0.00	0.00	Pump Stations	Communications		A	Inspector Comments: Cellular service is available to pump station personnel.	°	°	4
								°	°	
5	0.00	0.00	Pump Stations	Safety		A	Inspector Comments: No apparent safety hazards observed	°	°	5
								°	°	
6	0.00	0.00	Pump Stations	Cranes		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Cranes appear to be in operating condition.	°	°	6
								°	°	
7	0.00	0.00	Pump Stations	Pumps		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Pumps appear to be properly maintained and in proper working order.	°	°	7
								°	°	Y
8	0.00	0.00	Pump Stations	Power		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Power source and backup generators are on site.	°	°	8
								°	°	Y
9	0.00	0.00	Pump Stations	Motors, Engines, Fans & Gear Reducers		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: All items appear to be operational and properly maintained.	°	°	10
								°	°	
10	0.00	0.00	Pump Stations	Pump Control Systems		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: These items appear to be operational and properly maintained.	°	°	11
								°	°	
11	0.00	0.00	Pump Stations	Sumps/Wet Well		A	Inspector Comments: Sumps and wet wells are free of sediment and debris.	°	°	12
								°	°	
12	0.00	0.00	Pump Stations	Trash Racks		A	Inspector Comments: Trash racks are in place, properly maintained and clear of any debris.	°	°	13
								°	°	Y

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected, see Inspector Comment
C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2011

Sacramento County

Structure							Structure Length	Inspection Start/End	Inspector	
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05								08/05/2011 08/05/2011	Jim Eto	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
13	0.00	0.00	Pump Stations	Trash Rakes		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Trash rake appears to be properly maintained and in operational condition.	° °	° °	14 Y
14	0.00	0.00	Pump Stations	Sluice / Slide Gates		N	Inspector Comments: Sluice gates could not be accessed for inspection.	° °	° °	15
15	0.00	0.00	Pump Stations	Electric Gate Operators		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Electric gate operators appear to be in proper operating condition.	° °	° °	16
16	0.00	0.00	Pump Stations	Manual Gate Operators		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Manual gate operators appear to be in good working condition.	° °	° °	17
17	0.00	0.00	Pump Stations	Other Metallic Items		A	Inspector Comments: Exposed metal parts are painted and protected from corrosion.	° °	° °	18
18	0.00	0.00	Pump Stations	Flap Gates		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Flap gates appear to be properly maintained and operational.	° °	° °	19 Y
19	0.00	0.00	Pump Stations	Closure Structures		N	Inspector Comments: Separate closure structures other than sluice gates are not present.	° °	° °	20
20	0.00	0.00	Pump Stations	Security Fencing		A	Inspector Comments: Area is enclosed by adequate security fencing.	° °	° °	21 Y
21	0.00	0.00	Pump Stations	Intake and Discharge Pipes		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Pipes do not appear to have breaks, corrosion, holes or cracks that would be a source of water leakage.	° °	° °	22
22	0.00	0.00	Pump Stations	Pressurized Pipe		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: There does not appear to be any leakage or corrosion in the vicinity of the pipe. Pipe appears to be free of cracks or leaks.	° °	° °	23

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2011

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		08/05/2011 08/05/2011	Jim Eto

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Operating Log

08/05/2011 Photo shows desk with maintenance log and O & M manuals on site.

jeto_t_20110809_012.jpg



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Plant Building

08/05/2011 Photo shows building at pump station facility.

jeto_t_20110809_013.jpg



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pumps

08/05/2011 Photo shows all six pumps. Note, crane is in the background.

jeto_t_20110809_014.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2011

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		08/05/2011 08/05/2011	Jim Eto

Levee Mile Report Line	8
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Power

08/05/2011 Photo shows security fencing, power source and backup generator located in the background.

jeto_t_20110809_015.jpg



Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Trash Racks

08/05/2011 Photo shows trash racks.

jeto_t_20110809_016.jpg



Levee Mile Report Line	13
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Trash Rakes

08/05/2011 Close up photo of trash rake, note cleanliness and free of debris.

jeto_t_20110809_017.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2011

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 1 Howe Avenue Storm Drain D - 05		08/05/2011 08/05/2011	Jim Eto

Levee Mile Report Line	13
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Trash Rakes
08/05/2011 Extended photo of trash rakes.	
jeto_t_20110809_018.jpg	



Levee Mile Report Line	18
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Flap Gates
08/05/2011 Photo shows flap gates at pump station outfall structure.	
jeto_t_20110809_019.jpg	



Levee Mile Report Line	20
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Security Fencing
08/05/2011 Photo shows security fencing. Note, same photo was used to show electrical and emergency power supply.	
jeto_t_20110809_020.jpg	

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Flood Control Project Maintenance**Unit Cover Sheet****2011 Pumping Plant Inspection Results****Sacramento County**

Pumping Plant
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43

Pumping Plant Rating	A
Date of Inspection	8/5/2011
DWR Inspector	Jim Eto
Accompanied By	Jay Pettigrew Plumas
	Jon Money Sacramento County

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2011

Sacramento County

Structure							Structure Length	Inspection Start/End		Inspector	
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43								08/05/2011 08/05/2011		Jim Eto	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End	Photo	
1	0.00	0.00	Pump Stations	Operating Log		A	Inspector Comments: Operating log is kept on site and being used and updated.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	1 Y	
2	0.00	0.00	Pump Stations	Operation & Maintenance Manual		A	Inspector Comments: O & M Manual is kept on site, posted instructions are also written on dry erase board.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	2	
3	0.00	0.00	Pump Stations	Plant Building		A	Inspector Comments: Building appears to be in sound structural condition.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	3 Y	
4	0.00	0.00	Pump Stations	Communications		A	Inspector Comments: Telephone on site and cellular service is available to the operators.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	4	
5	0.00	0.00	Pump Stations	Safety		A	Inspector Comments: No safety hazards are visible.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	5	
6	0.00	0.00	Pump Stations	Cranes		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Crane appears to be in good working condition.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	6	
7	0.00	0.00	Pump Stations	Pumps		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Pumps appear to be properly maintained and operational.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	7 Y	
8	0.00	0.00	Pump Stations	Power		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: No visible deficiencies, backup generator is on site.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	8	
9	0.00	0.00	Pump Stations	Motors, Engines, Fans & Gear Reducers		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Items appear to be well maintained and operational.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	10	
10	0.00	0.00	Pump Stations	Pump Control Systems		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Controls appear well maintained and free of corrosion.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	11	
11	0.00	0.00	Pump Stations	Sumps/Wet Well		A	Inspector Comments: Wet well is clear of debris.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	12	
12	0.00	0.00	Pump Stations	Trash Racks		A	Inspector Comments: Trash rack is in place and free of debris.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	13 Y	
13	0.00	0.00	Pump Stations	Trash Rakes		N	Inspector Comments: There is no mechanical trash rake at this facility.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	14	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2011

Sacramento County

Structure						Structure Length	Inspection Start/End		Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43							08/05/2011 08/05/2011		Jim Eto

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
14	0.00	0.00	Pump Stations	Sluice / Slide Gates		N	Inspector Comments: Cannot visibly inspect gates.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	15
15	0.00	0.00	Pump Stations	Electric Gate Operators		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Electronic gate operators appear to be properly maintained and in proper working order.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	16 Y
16	0.00	0.00	Pump Stations	Manual Gate Operators		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Manual gate controls appear to be properly maintained and look to be operational.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	17
17	0.00	0.00	Pump Stations	Other Metallic Items		A	Inspector Comments: Other metallic items are painted to protect from corrosion.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	18
18	0.00	0.00	Pump Stations	Flap Gates		A	Inspector Comments: Flap gates are visible and appear to be in working order, there was no flow to test for leakage.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	19 Y
19	0.00	0.00	Pump Stations	Closure Structures		N	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Slide/Sluice gates act as closure structures. They are not visible for inspection.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	20
20	0.00	0.00	Pump Stations	Security Fencing		A	Inspector Comments: Security fencing encloses standby generator. Building is securely locked.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	21
21	0.00	0.00	Pump Stations	Intake and Discharge Pipes		A	Inspector Comments: No visible defects in pipes.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	22
22	0.00	0.00	Pump Stations	Pressurized Pipe		A	Inspector Comments: There is no evidence of erosion or leakage around pipe, or corrosion of the pipe.	38.584904 ° -121.421534 °	38.584904 ° -121.421534 °	23

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2011

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		08/05/2011 08/05/2011	Jim Eto

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Operating Log

08/05/2011 Photo shows operating log on site.

jeto_t_20110809_021.jpg



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Plant Building

08/05/2011 Photo of pumping plant structure.

jeto_t_20110809_023.jpg



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pumps

08/05/2011 Photo showing two of the pump motors.

jeto_t_20110809_024.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2011

Sacramento County

Structure	Structure Length	Inspection Start/End	Inspector
American River Pumping Plant No. 2 Willhaggin Storm Drain D - 43		08/05/2011 08/05/2011	Jim Eto

Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Trash Racks
08/05/2011 Photo shows properly maintained trash rack free of debris.	
jeto_t_20110809_025.jpg	



Levee Mile Report Line	15
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Electric Gate Operators
08/05/2011 Photo shows gate controls.	
jeto_t_20110809_026.jpg	



Levee Mile Report Line	18
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Flap Gates
08/05/2011 Photo shows flap gates on water side.	
jeto_t_20110809_027.jpg	

*** Location**

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N : Not Inspected, see Inspector Comment

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